at1110paper_practice_test (v35)

1. Solve the equation with factoring by grouping.

$$15x^2 - 12x - 10x + 8 \; = \; 0$$

2. Expand the following expression into standard form.

$$(2x + 7)(2x - 7)$$

3. Factor the expression.

$$x^2 + 2x - 24$$

4. Expand the following expression into standard form.

$$(7x + 3)^2$$

5. Solve the equation.
$$11x^2 + 14x - 33 = 4x^2 - 5x + 3$$

6. Factor the expression.
$$49x^2 - 36$$

7. Solve the equation.
$$(6x + 5)(3x - 2) = 0$$

8. Expand the following expression into standard form.
$$(3x - 2)(9x - 8)$$